

## AUTHOR INDEX

*Italic numbers refer to the Abstracts*

- Aiba, M., 73  
 Akagi, Y., 70  
 Akiyoshi, M., 77  
 Amemiya, T., 63, 288  
 Aoe, H., 1, 65, 120  
 Araki, M., 79  
 Aso, Y., 99  
  
 Baba, M., 65  
 Barnett, R. J., 61  
  
 Chiba, I., 79  
 Chida, K., 65, 234  
 Chisaka, N., 68  
  
 Endo, H., 71  
 Enomoto, M., 80  
 Eto, K., 257  
  
 Fujii, T., 73, 76, 202  
 Fujimori, K., 66, 350  
 Fujita, S., 67, 331  
 Fukuda, M., 67, 331  
 Futaesaku, Y., 75, 76  
  
 Gossrau, R., 153  
  
 Harada, M., 80  
 Harada, T., 65  
 Hashimoto, T., 68  
 Hirai, K-I., 18, 31, 68, 74  
 Hirano, H., 47  
 Hirano, T., 225  
 Hiraoka, T., 342  
 Hirata, K., 77  
 Hirohata, T., 69, 294  
 Hori, M., 70  
 Hori, S. H., 80, 214  
 Horibe, H., 66  
 Horikawa, M., 68  
 Hoshino, Y., 64  
 Hukunaga, H., 74  
  
 Ibata, Y., 69, 70, 91, 324  
 Ihara, N., 68, 372  
 Ikeda, A., 68  
 Imai, H., 85  
  
 Irimura, T., 47  
 Isemura, T., 67, 331  
 Ishida, A., 73, 202  
 Ishii, T., 76  
 Ishikawa, M., 71, 72  
 Itakura, T., 70  
 Ito, H., 71  
 Ito, M., 65, 73  
 Iwamasa, T., 64  
 Iwashima, Y., 79  
 Iwata, S., 66  
 Iwatsuki, H., 75  
 Izumi, S., 81  
  
 Kagawa, K., 80  
 Kameya, T., 73  
 Kami, K., 72  
 Kaneda, Y., 202  
 Kanno, Y., 69  
 Kashiba, A., 70  
 Katsura, S., 66  
 Kawai, K., 73  
 Kawakami, H., 68  
 Kawakita, Y., 76, 202  
 Kawamura, K., 80, 265  
 Kawaoi, A., 41, 177  
 Kawashima, A., 265  
 Kimoto, T., 68  
 Kishino, Y., 74  
 Kitamura, Y., 71  
 Kondo, Y., 66, 279  
 Kosaka, K., 1, 65  
 Koya, G., 78  
 Kubagawa, H., 177  
 Kudo, M., 78  
 Kumamoto, T., 69, 72, 294  
 Kurahashi, K., 72, 77  
 Kurihara, S., 81  
 Kurita, Y., 64  
 Kuroshima, Y., 81  
 Kuruhara, Y., 67  
  
 Maeda, R., 68, 372  
 Maeda, T., 70, 71, 72, 77  
 Makino, M., 8, 79  
 Makita, T., 80  
 Maruo, N., 331

- Masuda, H., 85  
 Matsui, Y., 69  
 Matsuura, T., 69, 70, 324  
 Mitsui, T., 72  
 Miyamoto, H., 56  
 Miyashita, T., 108, 186  
 Miyata, K., 80  
 Miyayama, H., 64, 247  
 Miyoshi, A., 68  
 Mizuhira, V., 63, 75, 76, 139  
 Mizuno, K., 63  
 Mizutani, A., 70, 314  
 Momose, G., 71  
 Mori, M., 8, 79, 80, 265  
 Morii, S., 73, 76, 81, 202, 364  
 Morikawa, S., 65  
 Mukai, M., 81  
 Murakami, M., 8  
 Murata, F., 76  
  
 Nada, O., 77  
 Nagasawa, H., 202  
 Nagata, T., 66, 76  
 Nagatsu, I., 66, 279  
 Nakada, H., 77  
 Nakagawa, S., 69, 72, 294  
 Nakagawa, T., 78  
 Nakai, Y., 71  
 Nakane, P. K., 30  
 Nakanishi, K., 331  
 Nakano, N., 74  
 Negayama, M., 74  
 Nishiyama, F., 47  
 Nishiyama, Y., 78  
 Nojyo, Y., 69, 324  
 Nozawa, S., 81  
  
 Ochi, J., 78  
 Ochiai, H., 71  
 Oda, T., 304  
 Ogawa, K., 18, 59, 64, 68  
 Ohkura, T., 65  
 Ohta, H., 81  
 Ohta, T., 8  
 Ohyumi, M., 64, 73, 134, 164  
 Okabe, K., 80  
 Okabe, M., 247, 257  
 Okada, K., 99  
 Okada, Y., 8, 80, 265  
 Okano, H., 91, 175  
 Okano, T., 177  
 Omura, S., 304  
  
 Otsuka, N., 74, 91, 175  
  
 Sahashi, K., 74  
 Saito, T., 67  
 Sakai, K., 257  
 Sano, R., 68, 372  
 Sano, Y., 69, 70, 324  
 Sasaki, M., 64  
 Sato, A. G., 68  
 Sato, K., 75  
 Sawamura, I., 67  
 Sawano, J., 68  
 Seligman, A. M., 64  
 Senoo, J., 68  
 Shannon, W. A., 64  
 Shibata, K., 80  
 Shichijo, S., 85  
 Shigenaga, K., 247  
 Shimada, S., 71, 72  
 Shimizu, E., 69, 72, 294  
 Shimizu, N., 70, 71  
 Shin-Ike, T., 77  
 Shinji, E., 139  
 Shinji, Y., 139  
 Shio, M., 78  
 Shiota, T., 68  
 Shobatake, H., 91  
 Suematsu, C., 69, 294  
 Sugawara, K., 65  
 Sugihara, H., 73, 76  
 Sugimura, K., 314  
 Sumitani, A., 68  
 Suzuki, H., 73, 78  
 Suzuki, I., 56  
 Suzuki, K., 193  
  
 Taira, Y., 225  
 Tajima, T., 81  
 Takamatsu, H., 58  
 Takaya, K., 75  
 Takei, Y., 63  
 Taketsu, E., 78  
 Takeuchi, H., 66, 350  
 Takeuchi, M., 85  
 Takeuchi, T., 64, 73, 223, 247, 257  
 Tanaka, A., 1, 65  
 Tanaka, C., 71, 72  
 Tohda, H., 79  
 Toki, J., 372  
 Tokue, A., 99  
 Tohyama, M., 70, 71  
 Tsuchiya, A., 64

Tsuchiyama, H., 73, 225  
 Tsukada, M., 78  
 Tsutsui, F., 81

Uchida, T., 177  
 Ueno, S., 288  
 Umemoto, K., 79  
 Uono, M., 74

Watanabe, A., 81, 364  
 Watanabe, G., 81  
 Watanabe, K., 81  
 Wegmann, R., 74

Yagi, T., 76

Yamada, M., 66, 350  
 Yamamoto, N., 41, 65, 215, 234  
 Yamasaki, Y., 70, 314  
 Yamashina, S., 63  
 Yano, S., 77  
 Yasuda, K., 65, 71, 215, 234  
 Yata, Y., 294  
 Yazima, H., 74  
 Yokota, S., 66  
 Yokoyama, K., 175  
 Yokoyama, M., 69, 99  
 Yokoyama, S., 68  
 Yoshida, S., 67  
 Yoshiki, S., 79  
 Yoshitomi, K., 81, 364

## SUBJECT INDEX

Accessory Cone, 63, 288  
 AChE, 76  
 Acid Phosphatase, 71  
 ACTH, 73  
 ACTH Receptor, 177  
 Adrenal Cortex, 73, 177  
 Adsorption Isotherm, 342  
 Albumin, 68  
 Alkaline Phosphatase, 81, 364  
 ALPase, 80  
 Amine, 70  
 Amine Nerve Terminal, 70  
 Amino Groups, 79  
 Aminopeptidase, 8  
 Aorticorenal Sympathetic Ganglion Cells, 69  
 AIP, 73  
 Arginase, 68  
 Asterias amurensis, 80  
 Atherosclerosis, 78  
 Atrial Muscle Cells, 74  
 Autoradiographic, 257  
 Axonal Flow, 66, 279

Biogenic Monoamines, 78  
 Biopsy, 75  
 Blood Cells, 66  
 Blood Platelets, 75  
 Bone, 8  
 Bovine, 73, 134, 164  
 Brain, 72

Cadmium, 75  
 Calcification, 79  
 Calcium(Ca)-containing Cancer Cells, 79

Calcium-magnesium Deficiency, 294  
 Ca-Mg, 69  
 Cancer, 81  
 Carbohydrate Metabolism, 73, 164  
 Carbamoyl Phosphate, 70, 314  
 Carcinogenesis, 80  
 Cat, 76  
 Catalase, 66, 67  
 Catecholamine, 66  
 CCl<sub>4</sub>-injured Liver, 193  
 Cell Membrane, 59  
 Cell Surface Membranes, 47  
 Central Nervous System, 70  
 Cerebral Infarction, 78  
 Chick Embryo, 80  
 Chick Retina, 63, 288  
 Chloromercuriferrocene, 215  
 Chromatin Fibers, 304  
 Colloidal Iron Method, 68  
 Conduction System, 73, 164  
 Creatinephosphotokinase, 74  
 Creatine Kinase, 74  
 Cultured Fibroblast, 81  
 Cyanuric Chloride, 79  
 Cytofluorometric Measurement, 331

Denervated, 74  
 Dense Bodies, 75  
 Diaminobenzidine, 31  
 Dimethylbez (a) anthracene, 76  
 Dithizone, 91  
 Dog, 72  
 Dopamine  $\beta$ -Hydroxylase, 279

- Eighth Nerve, 76  
 Electron Microscopic, 69, 70, 77, 91, 139  
 Electron Microscopical, 68, 225  
 Electron Microscopic Autoradiography, 175, 304  
 Electron Microscopic Cytochemistry, 59  
 Electron Microscope Autoradiography, 76  
 Electron Probe Microanalysis, 75  
 Enzyme-labeled Antibody Method, 30  
 Epi-illumination Microfluorometer, 67  
 Erythroid Cell, 331  
  
 Ferritin-conjugated Antibody Technique, 66  
 Feulgen, 67  
 Feulgen DNA, 67  
 Feulgen Nuclear Reaction, 342  
 Fluorescence, 67, 69, 75, 77, 78  
 Fluorophotometry, 66  
 Foliate Papilla, 77  
 Freeze-drying Method, 63  
 Frog, 77  
  
 Glycogen, 63, 64, 139  
 Glycogen Storage Disease, 64  
 Glucose-6-Phosphatase, 64, 99, 120  
 Golgi Area, 73  
 $\gamma$ -Glutamyl-transpeptidase, 80  
 G6PD, 193  
 Grain Count, 67  
 Guinea-pig, 64  
 Gustatory Cell, 77  
  
 Hair Cells, 77  
 Heart, 73, 74, 134, 164  
 Heavy Metal, 75  
 Hepatocytes, 18, 64, 68  
 Heterogeneity, 80  
 Hexokinase, 1, 65, 120  
 Hippocampal Formation, 91, 175  
 Histoautoradiographical, 225  
 Human, 1, 65, 66, 69, 75, 99, 134, 257  
 Hypertensive Rat, 225  
  
 ICD, 193  
 Immunoelectrophoresis, 68  
 Immunofluorescence, 66  
 Immunofluorescent, 68, 85, 279  
 Immunohistochemistry, 41  
 Intestinal Brush Border, 153  
 Intracellular Porphyrin, 331  
 Intranuclear Synthesis, 247  
 Isoproterenol, 74  
  
 Kidney, 68, 69, 79, 99, 234  
  
 Leucine Aminopeptidase, 80, 265  
 Leucocyte, 76, 350  
 Liver, 1, 65, 66, 68, 69, 80  
 Liver Diseases, 120  
 Locus Coeruleus, 71  
 Lysosomal Enzymes, 78  
 Lysozyme, 65  
  
 Macrophages, 78  
 Magnesium, 75  
 3'-McDAB, 64  
 Median Eminence, 71  
 Medulla, 225  
 Membrane Biogenesis, 61  
 Mercury, 257  
 Metabolic Inhibitors, 69  
 Metal Labelled Antibody Method, 215  
 Mice, 108  
 Microspectrophotometric, 66  
 Microspectrophotometric Analysis, 67  
 Minamata Disease, 257  
 Monoamine, 77  
 Morphogenesis, 18  
 Mossy Fiber Ending, 91, 175  
 Mouse, 18, 66  
 Mouse Liver, 234  
 Mucosubstances, 76  
 Muscle, 74  
  
 NA Fibers, 71  
 Neodymium, 77  
 Nerve Endings, 71  
 Neuroglia, 72  
 Neuron, 72  
 Nitro-blue Tetrazolium, 1  
 Nitro-BT, 77  
 Noradrenergic Cell, 71, 72  
 Nuclear DNA, 331  
 Nucleic Acid, 56  
  
 6-OH Dopa, 71  
 6-OH Dopamine, 71  
 Osmium Tetroxide, 75  
 Osteoid Matrix, 79  
  
 Pancreatic Zymogen Granules, 372  
 Paper Electrophoretical, 72  
 Paraboloid, 63, 288  
 PAS-Positive Substances, 65  
 Perfusion, 70

- Periodic Acid-Reactive Carbohydrate, 64  
 Peroxidase-ferritin-labeling Methods, 47  
 Peroxidase-labeled Antibody Method, 30, 56  
 Peroxidase-protein Conjugation, 41  
 Peroxisomes, 18, 68  
 Phosphatase, 69, 72  
 Phosphorylase, 63, 288  
 Pituitary MT Cells, 73  
 Placenta, 134  
 Polyglucose Particles, 247  
 Polyol Dehydrogenase, 234  
 Polysaccharide, 63  
 Potassium Permanganate, 70  
 Prenatal Adrenal, 225  
 Proteolytic Enzymes, 80  
  
 Quai', 80  
  
 Rabbit, 77  
 Radioautographic, 76  
 Radioautography, 76  
 Rat, 63, 68, 69, 72, 73, 74, 75, 76, 79, 80, 81, 177, 193, 202, 247, 294, 324, 364  
 Rat Brain, 314  
 Resolution, 76  
 Retinal, 63  
 Rhesus Monkey, 71  
 Ribose-5-phosphate Isomerase, 134, 214  
 Rodent, 68  
  
 Salivary Glands, 79  
 Sciatic Nerves, 279  
 SDH, 77  
 Secretory Granules, 73  
 Simfibrate, 18, 68  
 Skeletal Muscle, 75  
 Small Intestine, 80  
 Sorbitol Dehydrogenase, 65, 234  
 Spinal Cord, 324  
 Spinal Sensory Neuron, 72  
 SS and SH, 68  
 Starfish, 80  
 Steroid 3 $\beta$ -ol Dehydrogenase, 108, 186  
 Stoichiometry, 342  
 Submandibular Glands, 63  
 Sulfhydryl and Disulphide, 372  
 Sulpiride, 202  
 Superior Cervical Ganglion, 69  
 Sympathetic Nerve Terminal, 70  
  
 3T6, 81  
 Tamm-Horsfall Glycoprotein, 85  
 Taste Buds, 77  
 Testes, 364  
 Testis, 81  
 Thiamin Pyrophosphatase, 72  
 Thiosemicarbazide-Osmium Tetroxide Methods, 65  
 Titan Yellow, 75  
 Tooth, 66  
 Transplantable Tumors, 108  
 Trypan Blue, 69  
 Tumor Bearing Animal, 67  
 Tumor-Bearing Mice, 186  
 Tyrosine Hydroxylase, 279  
  
 Ultramicrochemical, 193  
 Undernutrition, 69  
 UV-Spectrophotometry, 66  
  
 Vaccinia Virus, 56  
 Vital Staining, 69  
  
 X-ray Microanalytical, 80  
  
 ZIO, 70  
 ZIO Impregnation Technique, 324